

## ABSTRACT

1        A transfer controller with hub and ports is viewed as a  
2 communication hub between the various locations of a global  
3 memory map. A request queue manager serves as a crucial part  
4 of the transfer controller. The request queue manager  
5 receives these data transfer request packets from plural  
6 transfer requests nodes. The request queue manager sorts  
7 transfer request packets by their priority level and stores  
8 them in the queue manager memory. The request queue manager  
9 processes dispatches transfer request packets to a free data  
10 channel based upon priority level and first-in-first-out  
11 within priority level.